# EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES

## **VIDEO ANALYSIS**

# **OPENCY FOR VIDEO PROCESSING**

Date	07 November 2022
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<b>Project Name</b>	Emerging Methods for Early Detection of
	Forest Fires

## pip install twilio

Looking in indexes: https://pypi.org/simple, https://us-

python.pkg.dev/colab-wheels/public/simple/ Requirement already satisfied: twilio in

/usr/local/lib/python3.7/dist-packages (7.15.1)

Requirement already satisfied: pytz in /usr/local/lib/python3.7/dist- packages

(from twilio) (2022.5)

Requirement already satisfied: requests>=2.0.0 in

/usr/local/lib/python3.7/dist-packages (from twilio) (2.23.0) Requirement already

satisfied: PyJWT<3.0.0,>=2.0.0 in

/usr/local/lib/python3.7/dist-packages (from twilio) (2.6.0) Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /usr/local/lib/python3.7/dist-packages (from requests>=2.0.0->twilio) (1.24.3) Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.7/dist-packages (from requests>=2.0.0->twilio)

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(2022.9.24)
```

Requirement already satisfied: idna<3,>=2.5 in

/usr/local/lib/python3.7/dist-packages (from requests>=2.0.0->twilio) (2.10)

Requirement already satisfied: chardet<4,>=3.0.2 in

/usr/local/lib/python3.7/dist-packages (from requests>=2.0.0->twilio) (3.0.4) pip

### install playsound

Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/ Requirement already satisfied: playsound in /usr/local/lib/python3.7/dist-packages (1.3.0)

#import opency library

import cv2 #import

numpy import numpy

#### as np

#import image function from keras from keras.preprocessing import image #import load\_model from keras

#### from keras.models import load model

#import client from twilio API from twilio.rest import

Client #import playsound package

## from playsound import playsound

WARNING:playsound:playsound is relying on another python subprocess. Please use `pip install pygobject` if you want playsound to run more efficiently.

#load the saved model model=load\_model("forest1.h5")
#define video video=cv2.VideoCapture(0) #define the features
name=['forest','with fire']